Report of Results: MVA5394 Analysis of Settled Dust 744 P Street-OB9

Prepared for:

State of California
Dept of General Services
Seismic & Special Programs
707 West 3rd St.
West Sacramento, CA 95605

Respectfully Submitted by:

Tim B. Vander Wood, Ph.D. Executive Director

MVA Scientific Consultants 3300 Breckinridge Boulevard Suite 400 Duluth, GA 30096

29 August 2007



Report of Results: MVA5394

Analysis of Settled Dust - 744 P Street-OB9

Introduction

On 20 July 2007, we received five settled dust samples from Clark Sief Clark, reportedly collected from 744 P Street-OB9, Sacramento, California. We were asked to determine the asbestos levels in the dust and possible sources for the asbestos. Upon receipt, the samples were assigned MVA Scientific Consultants laboratory identification numbers as follows:

| scription | MVA Number |
|--|--|
| | |
| chanical Rm, Top of electrical panel | S0837 |
| phone closet top of junction conduit box | S0838 |
| echanical Rm, floor by air unit | S0839 |
| hone closet, Top of fiber optic box | S0840 |
| | S0841 |
| | chanical Rm, Top of electrical panel phone closet top of junction conduit box echanical Rm, floor by air unit hone closet, Top of fiber optic box lephone closet shelf |

All analyses were carried out in our laboratory during the period 20 July through 29 August 2007.

Methods

The samples were analyzed according to ASTM Method D5755-03 using either a Philips model EM420 or a Philips model CM120 transmission electron microscope (TEM), equipped with an Oxford INCA energy dispersive x-ray spectrometer (EDS). Additional analyses for dust constituents that may serve as source indicators were also conducted by TEM/EDS.

Results and Discussion

The results of analysis for these samples are presented in Table 1. The Appendix contains a summary of the analytical results, the laboratory count sheets, and images and EDS spectra of typical asbestos fibers found in these samples. Also contained in the appendix are images and spectra showing vermiculite associated with chrysotile fibers and other asbestiform amphibole minerals typical of those known as "Libby amphibole" and observed as contaminants in vermiculite from the Libby, Montana vermiculite mine operated by W.R. Grace.



Conclusions

Dust analyzed in this study contains elevated levels of chrysotile asbestos. Portions of the dust are consistent with derivation from a chrysotile/vermiculite bearing fireproofing. Asbestiform amphibole consistent with "Libby amphibole" was also found, indicating that the vermiculite in this dust originated at least in part at W.R. Grace's Libby vermiculite mine.

Table 1. Asbestos Concentration in Settled Dust Samples

| | Sample ID | MVA Number | Asbestos Str/cm ² |
|---|-----------|------------|------------------------------|
| • | 06-VA | S0837 | 23,724,444 |
| | 07-VA | S0838 | 15,630,222 |
| | 08.VA | S0839 | 41,168,889 |
| | 09.VA | S0840 | 775,309 |
| | 10VA | S0841 | 418,667 |

1985

Chain of CustodyTEM Micro-Vacuum

Requested TAT (Circle One)
Analysis Type (Circle One)

Requested TAT (Circle One) Same Day One Day (24hr) Normal (48hr)
Analysis Type (Circle One) Air Surface Bulk Water

| O 1 1 2 2 2 2 2 2 2 2 | | | | Cas | e (| 0 1 آ | 211 | 39-/ | АМС | _D | oc. | <u> 170</u> | 74 | -7 | ĻΕ | ileç | 1 10/ | 16/ (| 07 | Pε | yge , ₄ | 1 ₁ of 28 | | • | |
|--|------------------|---------|----------------|-----|------|------------------|-------------|------------------------|--------------|---|---------|---|-------|----------|----------|---------|----------|------------------|----------|---|---|----------------------|------------------|-----------|-------------------|
| Claim # Sampling By # of Samples Date(s) Taken Page # | Total Pages | / | | | | | | Type of Analysis | | | | | | | 1 | | | | | | | | | | |
| Claim # Sampling By # of Samples Date(s) Taken Page # | | ō | | | | | | - | | - | 1 | | + | | į | | | | \dashv | | - | 1 | | | |
| Froject Name & Location: Froject Name & Location: Froject Name & Location: Froject Name & Location: Sample Location: Froject Name & Time Fro | Page # | / | n: | | | | | Total Voltume/Δres | 188 | + | 1~100cm | 1000001 | 200 | | | | | | | | | | / (Print & Sign) | | ste & Time |
| Project Name & Location: A feet of the sampling By # of Samples Date & Time Date | en | | ent Informatio | - | 100 | | - | Total | 2 | 5 1 | 2min. | | 200 | | | - | | : | | | | | Analysis By | | Analysis Di |
| Project Name & Location: An et al. Color Mechanic Color Col | Date(s) Tak | 7.17.07 | IIO CII | | 7 | | | Start Time Fnd Time | | | + | 1 | | | | | | | | 1 | | | Date & Time | 1/2.5/07 | Date & Time |
| Project Name & Location: 2 Sheet Date & Time Claim # Sample Sample Location 4 Coto Sample Location Achanic Location Achanic Location Achanic Location Achanic Location Achanic A | # of Samples | 7 | | | Ö | | | Start Flow Rate | | | 70.97 | 16.01 | ,,,,, | | 10.61 | 10.21 | | | | | 1 | | | | |
| Project Name & Location: 2 Sheet Date & Time Claim # Sample Sample Location 4 Coto Sample Location Achanic Location Achanic Location Achanic Location Achanic Location Achanic A | By | | | , | | | | Pilmo | 200 | 1 | | | | | | - | <u> </u> | | | -; | | | i & Sign) | lette | ıt & Sign) |
| Street Name & Location Street Of Sample Lo For the All Correction Cotton Learner Correction Location Location L | Sampling | FAS | | | | | | | 13. | 3 | 4.5 | | 101 | 500 | | | | | | | | | | J. Churt | Received By (Prir |
| Street Name & Locat Sample L For Polect Name & Locat Sample L For Polect Name & Locat For P | | | on: | | 5.9 | | | Contion | - 14ch | (LOhout | | ٢٤. | 1,217 | Cootic C | Les how | | | | | | | | ime | 1840.05 | , au |
| 1 2 E P 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 | Claim # | | ame & Locati | | 0 | | | Samule | 100/7 | | TUNC | j-ya | an ai | 7.57 | 10V | hel C | , | | | | | | Date & T. | 0 7.19.07 | Date & Tir |
| 1 2 E P 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 | | · | Project Na | | rest | 3 | | | 33 | 44 | 0 | 7 | 7007 | 1000 |) (A) | , | | | | 1 | | | | 12 | |
| Sampling Area and/or Sampling Area and/or Sampling Area and/or Sample # Date OB-VA 7.17.0 OG. VA 7.17.0 OG. VA 7.17.0 MANUS SEAR Relinquished By (Print & S.) Relinquished By (Print & S.) Relinquished By (Print & S.) | 1. | | | See | 48 | my | Building # | | | 12 | , ' | 7 | + | 7 | 7 | | | | - | 1 | | | jan) | | hubi |
| Sampling (2) (2) (2) (2) (2) (3) (4) (5) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7 | 3C Project | 5977 | | | 7 | ran. | Vrea and/or | | 1 | | 7.17.6 | 1, | | 7.17.0 | 7 | | | | | <u> </u> | | | By (Print & S. | SEST. | By (Print & S |
| and the company of th | is in the second | h101 | | | 77 | 3/9/2 | Sampling A | Sample # | | 4 | 07.VA | . () | 70.14 | M. 60 | | X / 0 / | | | | | | | Relinquished | RANCO | Relinquished |

APPENDIX



ASTM D5755 Results

MVA 5394

By:

W.Hili

Client project number:

Str/cm = No Str. X CFA X Total Vol.

Grid Op. X GO Area X Vol Filt X Area Sampled

| MVA #: | S0837 | Client #: | 06.VA | | | |
|--------|-------|-----------|---------|-------------|------------|------------|
| Str. # | CFA | #GO | Area GO | Vol Filt ml | Total Vol. | Area Samp. |
| 68 | 1256 | 4 | 0.009 | 0.1 | 100 | 100 |

Anal. Sens =

348888.889

Str/CM2 LOD = 3* Anal. Sens =

1046666.667

Total =

23724444.444 Str/CM2

| MVA #: | S0838 | Client #: | 07.VA | | | |
|--------|-------|-----------|---------|-------------|------------|------------|
| Str.# | CFA | #GO | Area GO | Vol Filt ml | Total Vol. | Area Samp. |
| 56 | 1256 | 5 | 0.009 | 0.1 | 100 | 100 |

Anal. Sens =

279111.111

Str/CM2 LOD =3* Anal. Sens =

837333.333

Total =

15630222.222 Str/CM2

| MVA #: | S0839 | Client #: | 08.VA | | | |
|--------|-------|-----------|---------|-------------|------------|------------|
| Str. # | CFA | #GO | Area GO | Vol Filt ml | Total Vol. | Area Samp. |
| 118 | 1256 | 4 | 0.009 | 0.1 | 100 | 100 |

Anal. Sens =

348888.889

Str/CM2 LOD =3* Anal. Sens =

1046666.667

Total =

41168888.889

Str/CM2

| MVA#: | S0840 | Client #: | 09.VA | | | |
|--------|-------|-----------|---------|-------------|------------|------------|
| Str. # | CFA | #GO | Area GO | Vol Filt ml | Total Vol. | Area Samp. |
| 50 | 1256 | 9 | 0.009 | 1 | 100 | 100 |

Anal. Sens =

15506.173

Str/CM2 LOD =3* Anal. Sens =

46518.519

Total =

775308.642

Str/CM2

| MVA #: | S0841 | Client #: | 10.VA | | | | |
|--------|--------|-----------|---------|-------------|------------|------------|---|
| Str.# | CFA | #GO | Area GO | Vol Filt mi | Total Vol. | Area Samp. | ٦ |
| | 3 1256 | 10 | 0.009 | 0.1 | 100 | 100 | |

Anal. Sens =

139555.556

Str/CM2 LOD =3* Anal, Sens =

<u>418666.667</u>

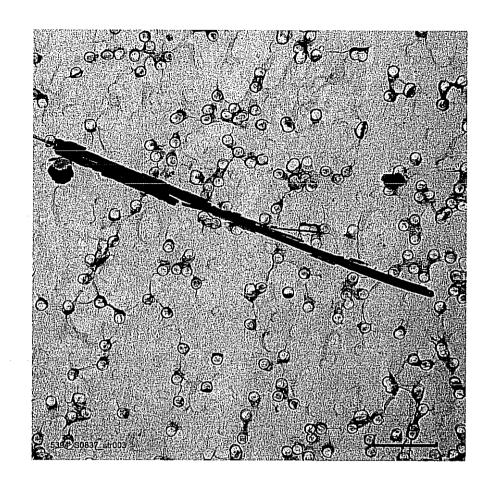
Total =

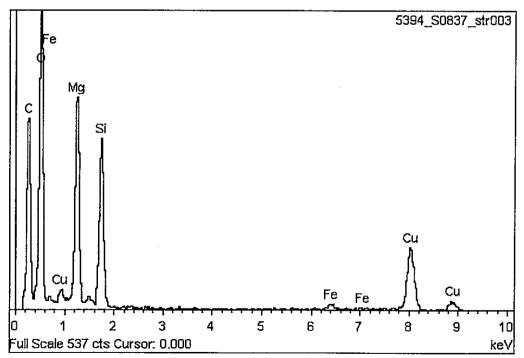
418666.667

Str/CM2

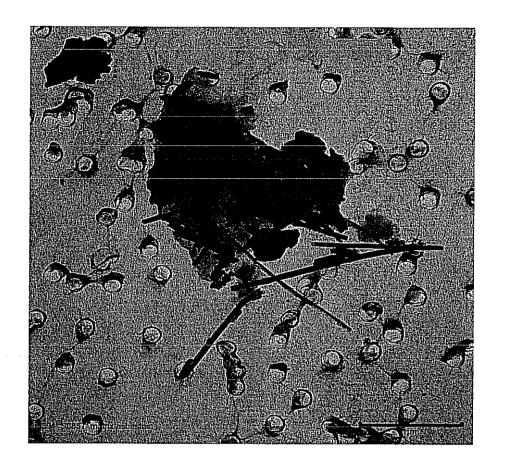


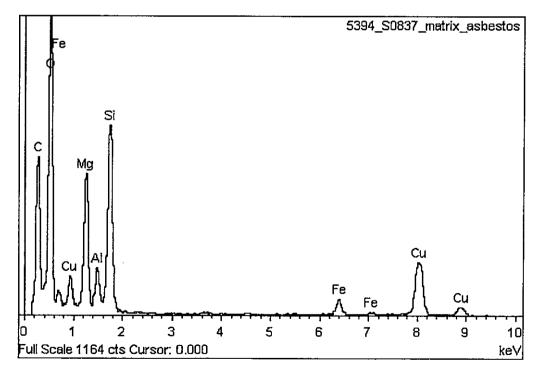
^{*} According to ASTM D6620



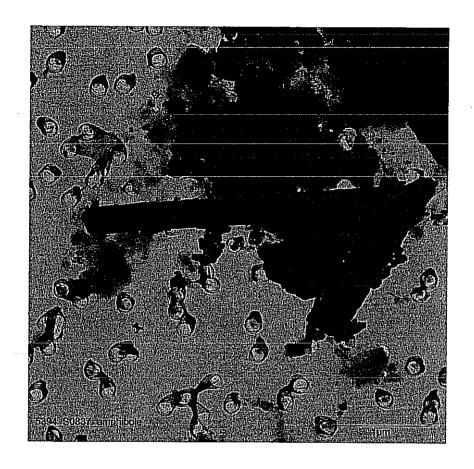


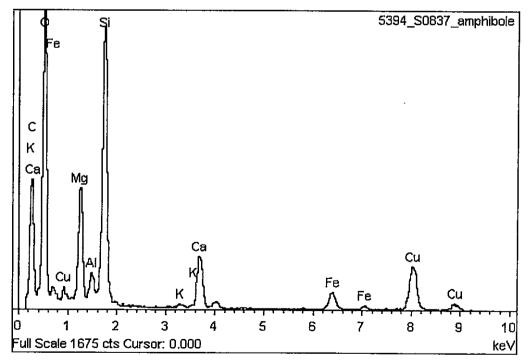




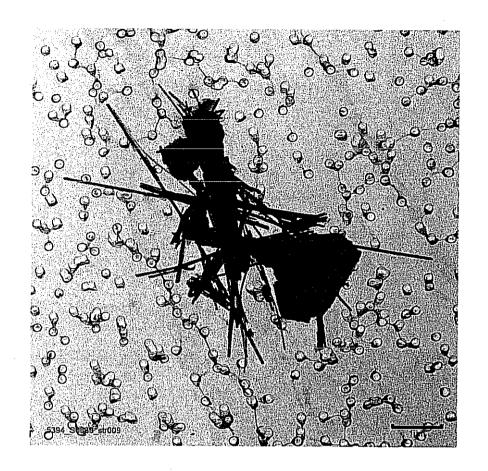


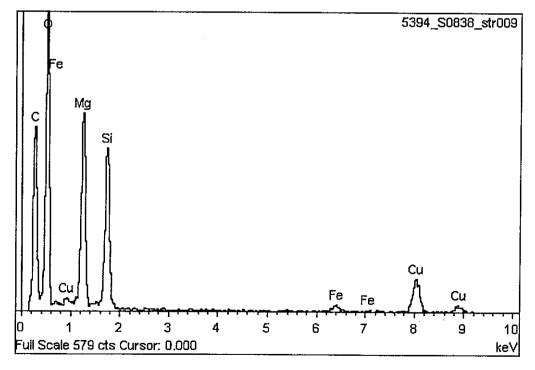




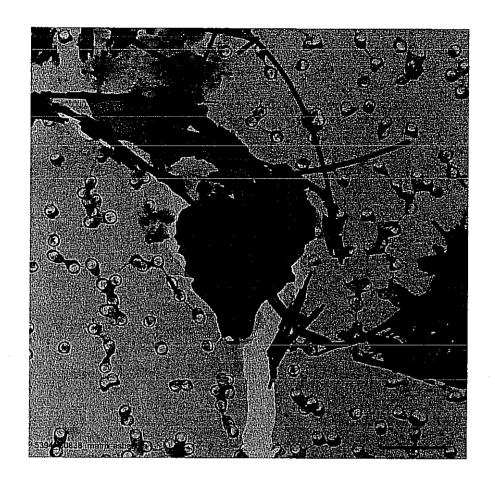


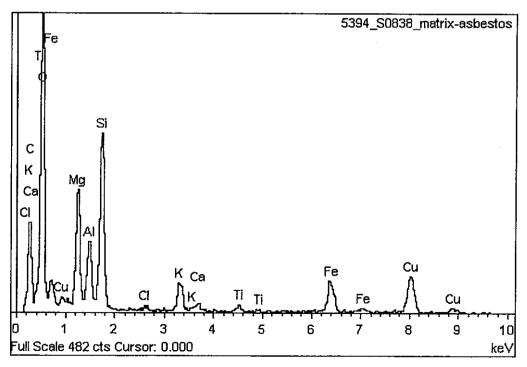




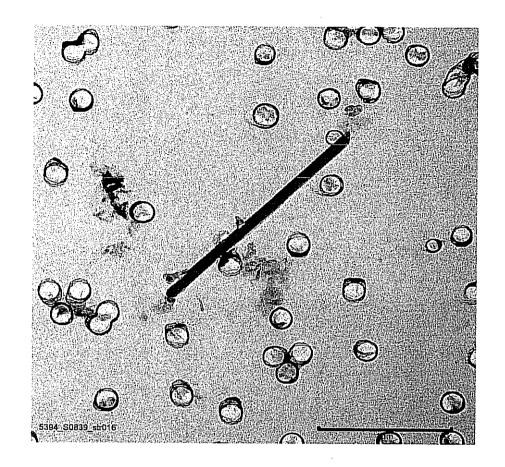


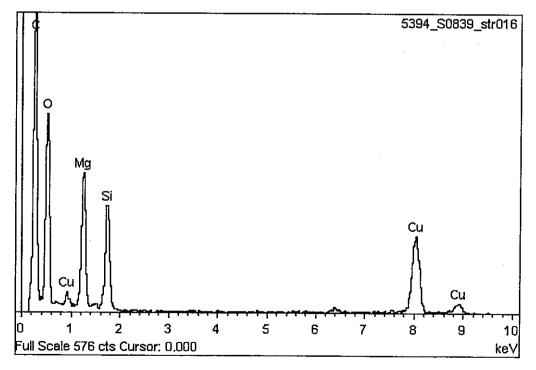




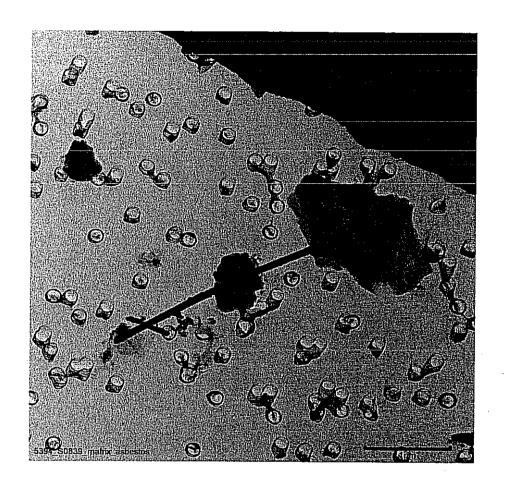


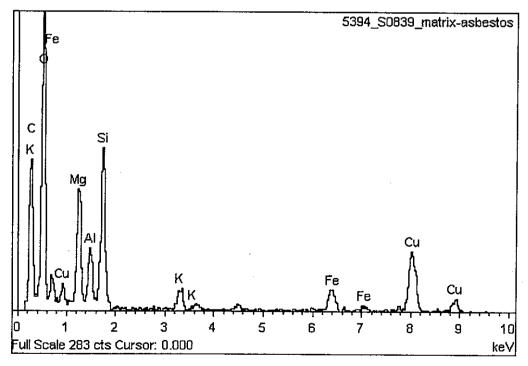




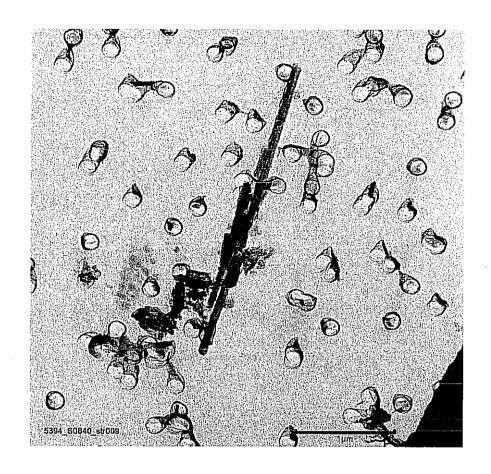


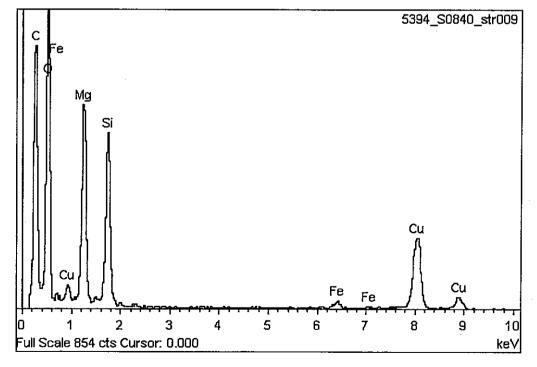




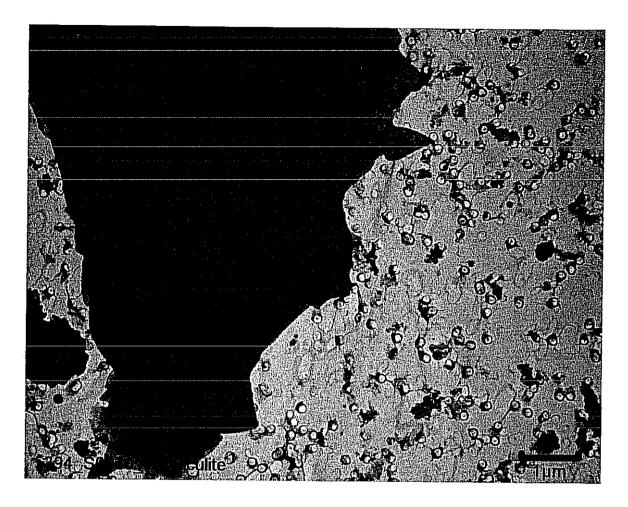


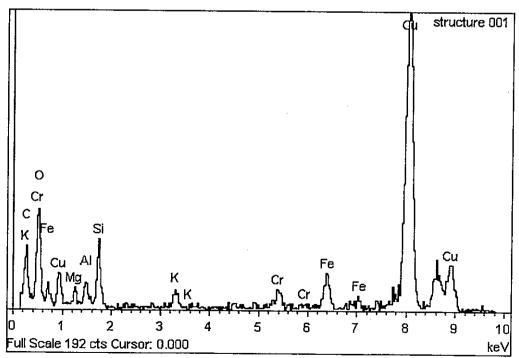


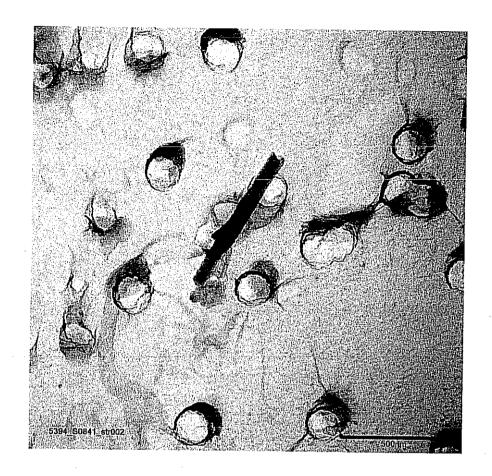


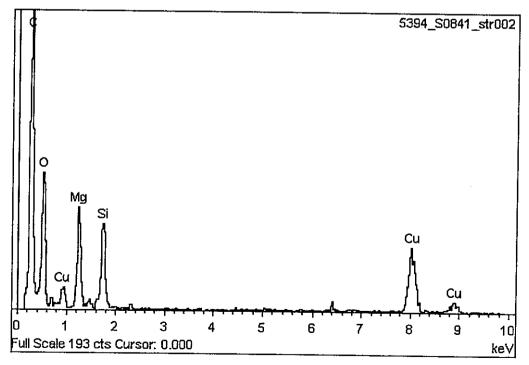




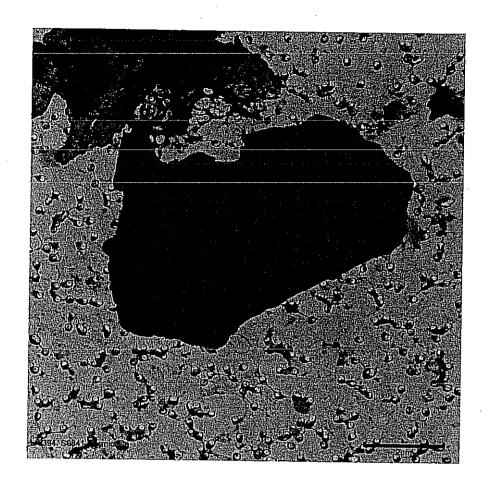


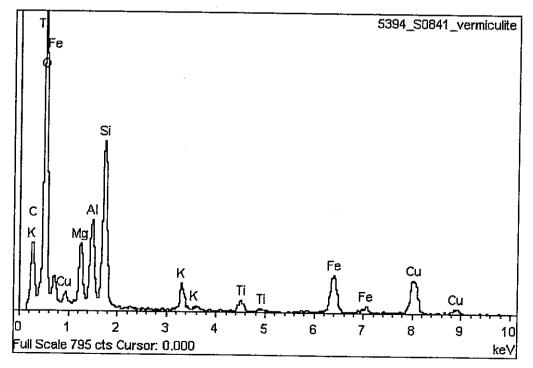














| · · · | • | ando Daor Campic A | maikala olieer | |
|----------------|----------|----------------------------------|----------------|--------------------|
| MVA Project# | 5394 | Amt Collected(cm ²): | 100 | Analyst: WH |
| MVA Sample# | S0837 | Amt Prepped(cm²): | 0.1 | Date: 7/31/2007 |
| Client I.D.: | 06.VA | Filter Area (mm²): | 1256 | Page: 1 of 2 |
| Instrument: Ph | ilips120 | Filter Type: | PC | Comments: 0.1 ml |
| Magnification: | 24,000 | Openings Analyzed: | 4 | ASTM Method: D6480 |
| Acc. Voltage: | 100 | Grid Opening (mm²): | 0.009 | or D5755 X |

| | | • | | | | | | | | |
|----------|---------|-----------|-----------|----------|----------|------|-----|----------|-----------|----------|
| | | Structure | Structure | Length** | Width** | | | | Length*** | Width*** |
| Grid | Opening | Number* | Type | (cm) | (cm) | SAED | EDS | Comments | (hui) | (µm) |
| 1 | B2 | 1 | M | 2.5 | 0.15 | С | | | 1.0 | 0.06 |
| | | 2 | F | 17.0 | 0.1 | С | ļ | | 7.1 | 0.04 |
| <u> </u> | ļ · | 3 | В | 16.0 | 0.5 | С | С | Photo | 6.7 | 0.21 |
| · | | 4 | F | 7.0 | 0.15 | С | | | 2.9 | 0.06 |
| | ļi | 5 | F | 3.1 | 0.15 | C | | | 1.3 | 0.06 |
| <u> </u> | | 6 | М | 8.5 | 0.1 | С | | | 3.5 | 0.04 |
| | · · | 7 | F | 4.0 | 0.1 | С | · | | 1.7 | 0.04 |
| | · | 8 | <u> </u> | 3.0 | 0.1 | С | | | 1.3 | 0.04 |
| | | . 9 | F | 7.5 | 0:15 | С | | | 3.1 | 0.06 |
| <u> </u> | | 10 | F | 7.5 | 0.1 | С | | - | 3.1 | 0.04 |
| | | 11 | M | 2.5 | 0.1 | .C | | | 1.0 | 0.04 |
| | | 12 | F | 3.2 | 0.1 | С | | | 1.3 | 0.04 |
| | | 13 | С | 6.5 | 0.3 | С | • | | 2.7 | 0.13 |
| | | 14 | В | 10.5 | 0.3 | _ C | | | 4.4 | 0.13 |
| | | 15 | F | 2.6 | 0.1 | С | | | 1.1 | 0.04 |
| | | 16 | F | 2.0 | 0.15 | С | | | 8.0 | 0.06 |
| | | 17 | F | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| | | 18 | F | 1.8 | 0.1 | С | | | 0.8 | 0.04 |
| | | 19 | F. | 5.2 | 0.1 | С | | | 2.2 | 0.04 |
| | C4 | 20 | F | 1.8 | 0.1 | С | | | 0.8 | 0.04 |
| | | 21 | F | 2.0 | 0.15 | С | | | 0.8 | 0.06 |
| | | 22 | F | 6.0 | 0.1 | С | | | 2.5 | 0.04 |
| | | 23 | F | 15.5 | 0.1 | С | | | 6.5 | 0.04 |
| - | | 24 | F | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| | | 25 | F | 5.0 | 0.1 | С | | - •/ | | -0.04 |
| | | 26 | F | 5.0 | 0.1 | С | I | | 2.1 | 0.04 |
| | | 27 | F | 7.0 | 0.15 | С | | | 2.9 | 0.06 |
| | | 28 | F | 15.0 | 0.1 | С | | | 6.3 | 0.04 |
| | | 29 | F | 6.0 | 0.1 | С | | | 2.5 | 0.04 |
| | | 30 | F | 4.0 | 0.15 | С | * | | 1.7 | 0.06 |
| | | 31 | F | 23.5 | 0.1 | С | | | 9.8 | 0.04 |
| | | 32 | F | 2.5 | 0.15 | c | | | 1.0 | 0.04 |
| | | 33 | F | 3.0 | 0.1 | С | | | 1.3 | 0.04 |
| | | 34 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | | 35 | F | 14.5 | 0.1 | С | | | 6.0 | 0.04 |
| **** | | | | | <u> </u> | | | | 0.0 | U.U4 |

^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

Case 01-01139-AMC Doc 17074-7 Filed 10/16/07 Page 19 of 28

MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

| MVA Project#_ | 5394 | Amt Collected(cm ²):_ | 100 | Analyst: | WH | |
|----------------|-----------|-----------------------------------|-------|--------------|----------|----|
| MVA Sample# | S0837 | Amt Prepped(cm²): | 0.1 | Date: | 7/31/200 |)7 |
| Client I.D.: | 06.VA | Filter Area (mm²): | 1256 | Page: | 2 of 2 | |
| Instrument: P | hilips120 | Filter Type: | PC | Comments: | 0.1 ml | |
| Magnification: | 24,000 | Openings Analyzed: | 4 | ASTM Method: | D6480 | |
| Acc. Voltage: | 100 | Grid Opening (mm²): | 0.009 | or | D5755 | Χ |

| Grid | Opening | Structure Number* | Structure Type | Length** (cm) | Width** (cm) | SAED | EDS | Comments | Length*** | Width*** |
|--------------|----------|----------------------|-------------------|------------------|-----------------|------|----------|----------|-------------|--------------|
| 1 | C4 | 36 | F | 2 | 0.1 | C | ED3 | Comments | (mu) 0.8 | (µm) 0.04 |
| | - 04 | 37 | F | 3.5 | 0.1 | C | - | | 1.5 | 0.04 |
| - | E1 | 38 | F | 5.0 | 0.1 | C | | | 2.1 | 0.04 |
| | <u> </u> | 39 | F | 9.5 | 0.1 | c | | | 4.0 | 0.04 |
| | | 40 | F | 9.5 | 0.15 | C | | | 4.0 | 0.06 |
| | | 41 | F | 6.0 | 0.15 | c | <u> </u> | | 2.5 | 0.06 |
| | | 42 | F | 5.8 | 0.1 | C | | | 2.4 | 0.04 |
| | | 43 | F | 1.7 | 0.1 | C | | | 0.7 | 0.04 |
| | | 44 | F | 1.6 | 0.1 | C | | | 0.7 | 0.04 |
| | | 45 | F | 8.0 | 0.1 | C | | | 3.3 | 0.04 |
| | | 46 | F | 3.5 | 0.1 | С | | | 1.5 | 0.04 |
| | | 47 | F | 40.0 | 0.1 | С | | | 16.7 | 0.04 |
| | | 48 | В | 6.5 | 0.5 | C | | | 2.7 | 0.21 |
| | | 49 | F | 9.5 | 0.1 | С | | - | 4.0 | 0.04 |
| | | 50 | F | 5.4 | 0.1 | С | - | | 2.3 | 0.04 |
| | | 51 | M | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| | G6 | 52 | В | 15.0 | 0.5 | С | , | | 6.3 | 0.21 |
| | | 53 | F | 4.5 | 0.1 | С | · | | 1.9 | 0.04 |
| | | 54 | F | 2.0. | 0.1 | С | | | 0.8 | 0.04 |
| | | 55 | В | 34.5 | 0.15 | С | | | 14.4 | 0.06 |
| | | 56 | ·F | 5.0 | 0.1 | С | | | 2.1 | 0.04 |
| | | 57 | · F | 3.5 | 0.15 | С | | | 1.5 | 0.06 |
| | , | 58 | F | 2.5 | 0.1 | C. | | | 1.0 | 0.04 |
| | | 59 | F | 8.0 | 0.1 | ,C | | | 3.3 | 0.04 |
| | | 60 | F | 5.0 | 0.1 | С | | - | 2.1 | 0.04 |
| | | 61 | F | 3.5 | 0.1 | C | | | 1.5 | 0.04 |
| | | 62 | F | 3.0 | 0.1 | C | | | 1.3 | 0.04 |
| | · | 63 | F | 11.5 | 0.1 | С | | | 4.8 | 0.04 |
| | | 64 | F | 3.5 | 0.1 | C | | | 1.5 | 0.04 |
| | | 65 | F | 12.0 | 0.7 | С | | | 5.0 | 0.29 |
| | | 66 | M | 3.5 | 0.1 | С | | | 1.5 | 0.04 |
| | | 67 | F | 5.0 | 0.1 | С | | | 2.1 | 0.04 |
| | | 68 | С | 5.5 | 1 | С | | | 2.3 | 0.42 |
| | | | | | | | | | | |
| | | | | | - | | | | | |

^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

| Canade Past Cample Analysis Silect | |
|--------------------------------------|--|
| Amt Collected(cm ²): 100 | Analyst: WH |
| Amt Prepped(cm²): 0.1 | Date: 7/31/2007 |
| Filter Area (mm²): 1256 | Page: 1 of 2 |
| Filter Type: PC | Comments: 0.1 ml |
| Openings Analyzed: 5 | ASTM Method: D6480 |
| Grid Opening (mm²): 0.009 | or D5755 X |
| | Amt Collected(cm²): 100 Amt Prepped(cm²): 0.1 Filter Area (mm²): 1256 Filter Type: PC Openings Analyzed: 5 |

| Grid | Opening | Structure Number* | Structure Type | Length** | Width** | | | <u> </u> | Length*** | Width*** |
|-------------|--|----------------------|-------------------|--|-------------|----------|-------|----------|-----------|----------|
| 1 | D2 | 1 | F | (cm) 4.5 | (cm) 0.1 | SAED | EDS | Comments | (µm) | (µm) |
| <u>-</u> | | 2 | В В | 5.5 | 0.1 | <u> </u> | | | 1.9 | 0.04 |
| | | 3 | В | | | C | | | 2.3 | 0.13 |
| | | 4 | C | 8.0 | 0.5 | C | | | 3.3 | 0.21 |
| | | 4 5 | F | 6.5 | 1 | С | | <u> </u> | 2.7 | 0.42 |
| <u> </u> | <u> </u> | | | 3.0 | 0.2 | С | | | 1.3 | 0.08 |
| | | 6 7 | C | 41.0 | 22.5 | С | | | 17.1 | 9.38 |
| | <u> </u> | 7 | F | 5.5 | 0.1 | С | ļ | | 2.3 | 0.04 |
| <u> </u> | | 8 | F | 13.0 | 0.2 | С | | | 5.4 | 0.08 |
| <u> </u> | | 9. | <u>C</u> | 17.5 | 13 | С | С | photo | 7.3 | 5.42 |
| · · · · · · | | 10 | F | 10.5 | 0.1 | C | | | 4.4 | 0.04 |
| ļ | | 11 | С | 3.0 | 0.8 | С | | | 1.3 | 0.33 |
| ļ | | 12 | F | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| ļ | | 13 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | | 14 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | | 15 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | | 16 | C | 90.0 | 45.5 | С | | | 37.5 | 18.96 |
| | | 17 | · C | 15.0 | 0.1 | С | | | 6.3 | 0.04 |
| <u></u> | G3 | 18 | F | 8.0 | 0.1 | С | | | 3.3 | 0.04 |
| | | 19 | С | 131.5 | 88 | С | - | | 54.8 | 36.67 |
| | | 20 | F | 7.5 | 0.1 | С | | | 3.1 | 0.04 |
| | E1 | 21 | M | 10.0 | 1.2 | С | | | 4.2 | 0.50 |
| | | 22 | В | 6.0 | 0.2 | С | | | 2.5 | 0.08 |
| | | 23 | В | 5.7 | 0.5 | С | | | 2.4 | 0.21 |
| | | 24 | В | 2.5 | 0.4 | С | | | 1.0 | 0.17 |
| | | 25 | F | 25.0 | 0.1 | С | | | 10.4 | 0.04 |
| | | 26 | F | 14.0 | 0.1 | C. | · · · | | 5.8 | 0.04 |
| | | 27 | F | 12.0 | 0.1 | С | | | 5.0 | 0.04 |
| | | 28 | С | 6.0 | 1.5 | С | | | 2.5 | 0.63 |
| | | 29 | F | 14.5 | 0.15 | С | | | 6.0 | 0.06 |
| | | 30 | М | 2.1 | 0.15 | С | | | 0.9 | 0.06 |
| | | 31 | F | 10.1 | 0.1 | С | | | 4.2 | 0.04 |
| | | 32 | C. | 23.5 | 7- | С | | | 9.8 | 2.92 |
| | | 33 | F | 13.5 | 0.1 | С | " | : | 5.6 | 0.04 |
| | | 34 | М | 2.2 | 0.1 | С | | | 0.9 | 0.04 |
| | C5 | 35 | F | 2.5 | 0.15 | С | | | 1.0 | 0.06 |
| | | | | | | | | | | |

^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

Case 01-01139-AMC Doc 17074-7 Filed 10/16/07 Page 21 of 28

MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

| | | Outlace Dust Salliple Allalysis Sile | er . |
|----------------|-----------|--------------------------------------|--------------------|
| MVA Project# | 5394 | Amt Collected(cm ²): 100 | Analyst: WH |
| MVA Sample# | S0838 | Amt Prepped(cm²): 0.1 | Date: 7/31/2007 |
| Client I.D.: | 07.VA | Filter Area (mm²): 1256 | Page: 2 of 2 |
| Instrument: Ph | ilips 120 | Filter Type: PC | Comments: 0.1 ml |
| Magnification: | 24,000 | Openings Analyzed: 5 | ASTM Method: D6480 |
| Acc. Voltage: | 100 | Grid Opening (mm²): 0.009 | or D5755 X |
| | | | |

| | | | | | • | | | | | |
|--|---------|-----------|-----------|----------|---------------------------------------|----------|-----|---------------------------------------|-----------|-------------|
| 0.33 | | Structure | Structure | Length** | Width** | | | | Length*** | Width*** |
| Grid | Opening | Number* | Type | (cm) | (cm) | SAED | EDS | Comments | (hш) | (hw) |
| 1 | C5 | 36 | В | 56 | 1 | С | | | 23.3 | 0.42 |
| - | | 37 | F | 6.0 | 0.1 | С | | | 2.5 | 0.04 |
| - | | 38 | В | - 8.5 | 0.5 | С | | | 3.5 | 0.21 |
| | | 39 | В | 11.5 | 2.1 | С | | = | 4.8 | 0.88 |
| | | 40 | В | 11.0 | 0.5 | С | | | 4.6 | 0.21 |
| | - | 41 | F | 4.0 | 0.15 | С | | | 1.7 | 0.06 |
| | | 42 | F | 4.0 | 0.1 | С | | | 1.7 | 0.04 |
| | | 43 | F | 3.5 | 0.1 | С | | | 1.5 | 0.04 |
| | | 44 | F | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| <u> </u> | B3 | 45 | F | 8.0 | 0.1 | С | | | 3.3 | 0.04 |
| | | 46 | M | 16.0 | 2 | С | | | 6.7 | 0.83 |
| | | 47 | F | 3.0 | 0.1 | С | | | 1.3 | 0.04 |
| | | 48 | В | 11.8 | 0.4 | С | | | 4.9 | 0.17 |
| | | 49 | F | 3.6 | 0.1 | С | | | 1.5 | 0.04 |
| | | 50 | С | 35.0 | 15 | С | | | 14.6 | 6.25 |
| | | 51 | F | 7.5 | 0.1 | С | | | 3.1 | 0.04 |
| | | 52 | F | 16.5 | 0.1 | С | | | 6.9 | 0.04 |
| | | 53 | F | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| | | 54 | В | 3.0 | 0.3 | С | | - | 1.3 | 0.13 |
| | | 55 | С | 12.0 | 11 | С | | " " | 5.0 | 4.58 |
| | | 56 | С | 14.5 | 3.5 | С | | | 6.0 | 1.46 |
| | | | | | | | | | 0.0 | 0 |
| | 4.29 | - | | | | | | | | |
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^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

| | | ourrace pust sample h | maiysis oneet | |
|----------------|------------|----------------------------------|---------------|--------------------|
| MVA Project# | 5394 | Amt Collected(cm ²): | 100 | Analyst: WH |
| MVA Sample# | S0839 | Amt Prepped(cm²): | 0.1 | Date: 8/1/2007 |
| Client I.D.: | 08.VA | Filter Area (mm²): | 1256 | Page: 1 of 4 |
| Instrument: P | hilips 120 | Filter Type: | PC | Comments: 0.1 ml |
| Magnification: | 24,000 | Openings Analyzed: | 4 | ASTM Method: D6480 |
| Acc. Voltage: | 100 | Grid Opening (mm²): _ | 0.009 | or D5755 X |
| | | | | |

| Grid Opening Number Structure (cm) Length (cm) Width (cm) | | J-1 | | | _ 00 0 pc | anny (mm) | | | - | פפ/פט וט | ^ |
|---|----------|---------|------|-----|-----------|-----------|------|-----|----------|-------------|--------------|
| 1 B2 1 C 2.8 1.5 C 1.2 0.63 0.04 2 F 1.5 0.1 C 0.68 0.04 3 F 2.0 0.1 C 2.5 0.04 4 F 6.0 0.1 C 2.9 0.04 5 F 7.0 0.1 C 2.9 0.04 6 F 4.0 0.1 C 1.7 0.04 8 F 7.5 0.1 C 3.1 0.04 9 F 1.5 0.1 C 0.6 0.04 10 M 2.5 0.1 C 0.6 0.04 11 F 2.5 0.3 C 1.0 0.04 11 F 2.5 0.3 C 1.0 0.04 11 F 2.5 0.1 C 0.9 0.06 12 M <th>Grid</th> <th>Opening</th> <th></th> <th></th> <th></th> <th></th> <th>SAED</th> <th>EDS</th> <th>Comments</th> <th>•</th> <th>Width***</th> | Grid | Opening | | | | | SAED | EDS | Comments | • | Width*** |
| C | 1 | B2 | 1 | С | 2.8 | 1.5 | С | | | <u> </u> | |
| S | <u> </u> | | 2 | F | 1.5 | 0.1 | С | | | | |
| | | | 3 | F | 2.0 | 0.1 | С | | | | + |
| S | | | 4 | F | 6.0 | 0.1 | С | | | | - |
| 6 | | | 5 | F | 7.0 | 0.1 | С | | | | |
| | | | 6 | F | 4.0 | 0.1 | С | | | | 1 |
| B | | | 7 | F | 7.5 | 0.1 | С | | | | |
| 9 F 1.5 0.1 C 0.6 0.04 10 M 2.5 0.1 C 1.0 0.04 111 F 2.5 0.3 C 1.0 0.13 122 M 3.0 0.2 C 0.6 0.04 133 F 1.5 0.1 C 0.6 0.04 144 F 2.2 0.15 C 0.9 0.06 15 F 2.5 0.1 C 0.6 0.04 16 F 4.5 0.1 C 0.6 0.19 17 F 2.2 0.1 C 0.9 0.04 18 F 10.5 0.1 C 0.9 0.04 19 F 2.5 0.1 C 0.9 0.04 19 F 2.5 0.1 C 0.9 0.04 20 F 2.0 0.1 C 0.8 0.04 21 F 1.5 0.1 C 0.8 0.04 22 C 3.0 1.5 C 0.8 0.04 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 0.8 0.04 29 F 2.0 0.1 C 0.8 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 0.8 0.04 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 0.8 0.04 34 F 3.5 0.1 C 0.8 0.04 35 C 0.8 0.04 36 C 0.8 0.04 37 C 0.8 0.04 38 C 0.8 0.04 39 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 0.8 0.04 33 B 29.0 0.7 C 0.8 0.04 34 F 3.5 0.1 C 0.8 0.04 35 C 0.8 0.04 36 C 0.8 0.04 37 0.8 0.04 38 0.04 0.05 0.05 0.05 39 0.04 0.05 0.05 0.05 30 0.04 0.05 0.05 0.05 30 0.04 0.05 0.05 0.05 30 0.04 0.05 0.05 0.05 31 32 F 2.0 0.1 C 0.8 0.04 32 0.04 0.05 0.05 0.05 0.05 0.05 33 0.04 0.05 0.05 0.05 0.05 0.05 34 F 3.5 0.1 C 0.05 0.05 35 0.05 0.05 0.05 0.05 0.05 36 0.05 0.05 0.05 0.05 0.05 37 0.05 0.05 0.05 0.05 0.05 38 0.05 0.05 0.05 0.05 39 0.05 0.05 0.05 0.05 0.05 30 | | | 8 | F | 2.8 | 0.1 | С | | | | |
| 10 | | | 9 | F | 1.5 | 0.1 | С | | | | 1 |
| 11 | | | 10 | M | 2.5 | 0.1 | С | | | | |
| 12 M 3.0 0.2 C 1.3 0.08 13 F 1.5 0.1 C 0.6 0.04 14 F 2.2 0.15 C 0.9 0.06 15 F 2.5 0.1 C 0.9 0.04 16 F 4.5 0.1 C 0.9 0.04 17 F 2.2 0.1 C 0.9 0.04 18 F 10.5 0.1 C 0.9 0.04 19 F 2.5 0.1 C 0.9 0.04 19 F 2.5 0.1 C 0.8 0.04 20 F 2.0 0.1 C 0.8 0.04 21 F 1.5 0.1 C 0.6 0.04 22 C 3.0 1.5 C 1.3 0.63 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 0.6 0.04 27 F 5.0 0.1 C 2.1 0.04 28 M 3.0 0.1 C 2.1 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 0.8 0.04 33 B 29.0 0.7 C 0.8 0.04 34 F 3.5 0.1 C 0.8 0.04 37 76 3.5 0.1 C 0.8 0.04 38 77 78 3.5 0.1 C 0.8 0.04 30 79 2.0 0.1 C 0.8 0.04 31 32 F 2.0 0.1 C 0.8 0.04 33 34 F 3.5 0.1 C 0.8 0.04 34 F 3.5 0.1 C 0.8 0.04 35 76 77 78 0.05 | | ` | 11 | · F | 2.5 | 0.3 | С | | 1 | | |
| 13 | <u></u> | | 12 | M | 3.0 | 0.2 | С | | | | |
| 14 F 2.2 0.15 C 0.9 0.06 15 F 2.5 0.1 C photo 1.0 0.04 16 F 4.5 0.1 C photo 1.9 0.04 17 F 2.2 0.1 C 0.9 0.04 18 F 10.5 0.1 C 4.4 0.04 19 F 2.5 0.1 C 1.0 0.04 20 F 2.0 0.1 C 0.8 0.04 21 F 1.5 0.1 C 0.6 0.04 22 C 3.0 1.5 C 1.3 0.63 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 2.1 0.04 27 F | | | 13 | F | 1.5 | 0.1 | · c | | | | ļ |
| 15 F 2.5 0.1 C C photo 1.0 0.04 16 F 4.5 0.1 C C photo 1.9 0.04 17 F 2.2 0.1 C 0.9 0.04 18 F 10.5 0.1 C 4.4 0.04 19 F 2.5 0.1 C 1.0 0.04 20 F 2.0 0.1 C 0.8 0.04 21 F 1.5 0.1 C 0.6 0.04 22 C 3.0 1.5 C 1.3 0.63 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 2.1 0.04 27 F 5.0 0.1 C 0.8 0.04 | | | 14 | F | 2.2 | 0.15 | С | | | | |
| 16 F 4.5 0.1 C C photo 1.9 0.04 17 F 2.2 0.1 C 0.9 0.04 18 F 10.5 0.1 C 4.4 0.04 19 F 2.5 0.1 C 0.8 0.04 20 F 2.0 0.1 C 0.8 0.04 21 F 1.5 0.1 C 0.6 0.04 22 C 3.0 1.5 C 1.3 0.63 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 2.1 0.04 27 F 5.0 0.1 C 2.1 0.04 29 F 2.0 0.1 C 0.8 0.04 31 B <td< td=""><td></td><td></td><td>15</td><td>F</td><td>2.5</td><td>0.1</td><td>С</td><td>-</td><td></td><td></td><td>1</td></td<> | | | 15 | F | 2.5 | 0.1 | С | - | | | 1 |
| 17 F 2.2 0.1 C 0.9 0.04 18 F 10.5 0.1 C 4.4 0.04 19 F 2.5 0.1 C 1.0 0.04 20 F 2.0 0.1 C 0.8 0.04 21 F 1.5 0.1 C 0.6 0.04 22 C 3.0 1.5 C 1.3 0.63 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 0.6 0.04 27 F 5.0 0.1 C 2.1 0.04 28 M 3.0 0.1 C 0.8 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 <td< td=""><td></td><td></td><td>16</td><td>F</td><td>4.5</td><td>0.1</td><td>С</td><td>С</td><td>photo</td><td></td><td></td></td<> | | | 16 | F | 4.5 | 0.1 | С | С | photo | | |
| 18 F 10.5 0.1 C 4.4 0.04 19 F 2.5 0.1 C 1.0 0.04 20 F 2.0 0.1 C 0.8 0.04 21 F 1.5 0.1 C 0.6 0.04 22 C 3.0 1.5 C 1.3 0.63 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 2.9 0.33 D4 26 F 1.5 0.1 C 2.1 0.04 27 F 5.0 0.1 C 2.1 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 | | | 17 | F | 2.2 | 0.1 | С | | | | |
| 19 F 2.5 0.1 C 1.0 0.04 20 F 2.0 0.1 C 0.8 0.04 21 F 1.5 0.1 C 0.6 0.04 22 C 3.0 1.5 C 1.3 0.63 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 2.1 0.04 27 F 5.0 0.1 C 2.1 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 <td< td=""><td></td><td></td><td>18</td><td>F</td><td>10.5</td><td>0.1</td><td>С</td><td></td><td></td><td></td><td></td></td<> | | | 18 | F | 10.5 | 0.1 | С | | | | |
| 20 F 2.0 0.1 C 0.8 0.04 21 F 1.5 0.1 C 0.6 0.04 22 C 3.0 1.5 C 1.3 0.63 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 0.6 0.04 27 F 5.0 0.1 C 2.1 0.04 28 M 3.0 0.1 C 1.3 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 <td< td=""><td></td><td></td><td>19</td><td>F</td><td>2.5</td><td>0.1</td><td>С</td><td></td><td></td><td></td><td></td></td<> | | | 19 | F | 2.5 | 0.1 | С | | | | |
| 21 F 1.5 0.1 C 0.6 0.04 22 C 3.0 1.5 C 1.3 0.63 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 0.6 0.04 27 F 5.0 0.1 C 2.1 0.04 28 M 3.0 0.1 C 1.3 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 <t< td=""><td></td><td></td><td>20</td><td>F</td><td>2.0</td><td>0.1</td><td>С</td><td></td><td></td><td></td><td></td></t<> | | | 20 | F | 2.0 | 0.1 | С | | | | |
| 22 C 3.0 1.5 C 1.3 0.63 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 0.6 0.04 27 F 5.0 0.1 C 2.1 0.04 28 M 3.0 0.1 C 1.3 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | | 21 | F | 1.5 | 0.1 | С | | | | |
| 23 F 2.8 0.1 C 1.2 0.04 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 0.6 0.04 27 F 5.0 0.1 C 2.1 0.04 28 M 3.0 0.1 C 1.3 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | | 22 | С | 3.0 | 1.5 | С | | | | |
| 24 F 8.0 0.1 C 3.3 0.04 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 0.6 0.04 27 F 5.0 0.1 C 2.1 0.04 28 M 3.0 0.1 C 1.3 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | • | 23 | F | 2.8 | 0.1 | С | | | | |
| D4 25 B 7.0 0.8 C 2.9 0.33 D4 26 F 1.5 0.1 C 0.6 0.04 27 F 5.0 0.1 C 2.1 0.04 28 M 3.0 0.1 C 1.3 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | | 24 | F | 0,8 | 0.1 | С | | | | |
| D4 26 F 1.5 0.1 C 0.6 0.04 27 F 5.0 0.1 C 2.1 0.04 28 M 3.0 0.1 C 1.3 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | | 25 - | B | 7.0 | 8.0 | С | | | | |
| 27 F 5.0 0.1 C 2.1 0.04 28 M 3.0 0.1 C 1.3 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | : D4 | 26 | F | 1.5 | 0.1 | С | | | | |
| 28 M 3.0 0.1 C 1.3 0.04 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | | 27 | F | 5.0 | 0.1 | С | | • | 2.1 | |
| 29 F 2.0 0.1 C 0.8 0.04 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | | 28 | М | 3.0 | 0.1 | С | | | | |
| 30 F 2.0 0.1 C 0.8 0.04 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | | 29 | F | 2.0 | 0.1 | С | | | | |
| 31 B 5.0 0.5 C 2.1 0.21 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | | 30 | F | 2.0 | 0.1 | | | | | |
| 32 F 2.0 0.1 C 0.8 0.04 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | | 31 | В | 5.0 | 0.5 | С | | | | |
| 33 B 29.0 0.7 C 12.1 0.29 34 F 3.5 0.1 C 1.5 0.04 | | | 32 | F | 2.0 | 0.1 | С | | | | |
| 34 F 3.5 0.1 C 1.5 0.04 | | | 33 | В | 29.0 | 0.7 | | | | | |
| | | | 34 | F | 3.5 | 0.1 | С | | | | |
| | | | 35 | В | 4.5 | 0.25 | С | | | | |

^{*}NFD or NSD = No Fibers Detected or No Structures Detected

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

EDS: C = Chrysotile, AM = Amosite, CR = Crocidolite, AC = Actinolite, AN = Anthophyllite, TR = Tremolite, N = Non Asbestos

Case 01-01139-AMC Doc 17074-7 Filed 10/16/07 Page 23 of 28

MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

| | | Carrace Dast cattible y | maikolo oliei | 5£ |
|----------------|------------|--------------------------------|---------------|--------------------|
| MVA Project#_ | 5394 | Amt Collected(cm²): | 100 | Analyst: WH |
| MVA Sample# | S0839 | Amt Prepped(cm ²): | 0.1 | Date: 8/1/2007 |
| Client I.D.: | 08.VA | Filter Area (mm²): | 1256 | Page: 2 of 4 |
| Instrument: P | hilips 120 | Filter Type: | PC | Comments: 0.1 ml |
| Magnification: | 24,000 | Openings Analyzed: | 4 | ASTM Method: D6480 |
| Acc. Voltage: | 100 | Grid Opening (mm²): | 0.009 | or D5755 X |

| Grid | Opening | Structure Number* | Structure Type | Length** (cm) | Width** (cm) | SAED | EDS | Comments | Length*** (µm) | Width*** (µm) |
|------|----------|----------------------|-------------------|------------------|-----------------|------|-----|----------|-------------------|------------------|
| 1 | D4 | 36 | М | 1.9 | 0.1 | С | | | 0.8 | 0.04 |
| | | 37 | F | 1.7 | 0.1 | С | | | 0.7 | 0.04 |
| | | 38 | F | 6.5 | 0.1 | С | | | 2.7 | 0.04 |
| | | 39 | F | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| | | 40 | F | 7.0 | 0.2 | С | | | 2.9 | 0.08 |
| | | 41 | F | 5.5 | 0.15 | C- | | | 2.3 | 0.06 |
| | | 42 | F | 5.0 | 0.1 | С | | * . | 2.1 | 0.04 |
| · | | 43 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | | 44 | F | 3.5 | 0.1 | C. | | | 1.5 | 0.04 |
| | | 45 | F | 27.0 | 0.1 | С | | | 11.3 | 0.04 |
| | | 46 | F | 3.5 | 0.1 | C | | | 1.5 | 0.04 |
| | | 47 | F | 3.6 | 0.1 | С | - | - | 1.5 | 0.04 |
| | | 48 | F | 3.6 | 0.1 | С | | | 1.5 | 0.04 |
| | | 49 | F | 4.6 | 0.1 | С | | | 1.9 | 0.04 |
| | <u> </u> | 50 | F | 5.5 | 0.1 | С | | | 2.3 | 0.04 |
| | | 51 | F | 9.0 | 0.1 | С | | | 3.8 | 0.04 |
| | | 52 | F | 4.5 | 0.1 | С | | | 1.9 | 0.04 |
| | • | 53 | F | 1.5 | 0.1 | С | | | 0.6 | 0.04 |
| | G6 | 54 | M | 4.5 | 0.1 | С | | | 1.9 | 0.04 |
| | | 55 | F | 7.5 | 0.1 | С | | | 3.1 | 0.04 |
| | | 56 | F | 1.5 | 0.1 | С | | | 0.6 | 0.04 |
| | | 57 | F | 6.0 | 0.1 | С | | | 2.5 | 0.04 |
| | | 58 | F | 2.5 | 0.15 | С | | | 1.0 | 0.06 |
| | | 59 | F | 10.1 | 0.1 | С | | " | 4.2 | 0.04 |
| | <u> </u> | 60 | F | 21.5 | 0.1 | C. | | | 9.0 | 0.04 |
| | · | 61 | F | 4.5 | 0.1 | С | | | 1.9 | 0.04 |
| | | 62 | F | 11.5 | 0.1 | С | | | 4.8 | 0.04 |
| | | 63 | F_ | 5.6 | 0.1 | С | | | 2.3 | 0.04 |
| | | 64 | В | 3.5 | 0.2 | С | | | 1.5 | 0.08 |
| | | 65 | F | 9.5 | 0.1 | С | | | 4.0 | 0.04 |
| | | 66 | F | 3.0 | 0.1 | С | | | 1.3 | 0.04 |
| | | 67 | F | 26.0 | 0.1 | С | | | 10.8 | 0.04 |
| | | 68 | F | 9.0 | 0.1 | С | | | 3.8 | 0.04 |
| | | 69 | F | 1.5 | 0.2 | С | | | 0.6 | 0.08 |
| | | 70 | F | 3.5 | 0.1 | С | | | 1.5 | 0.04 |

^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

| - and of Page bample Allary 313 Officet | |
|---|--|
| Amt Collected(cm ²): 100 | Analyst: WH |
| Amt Prepped(cm²): 0.1 | Date: 8/1/2007 |
| Filter Area (mm²): 1256 | Page: 3 of 4 |
| Filter Type: PC | Comments: 0.1 ml |
| Openings Analyzed: 4 | ASTM Method: D6480 |
| Grid Opening (mm²): 0.009 | or D5755 X |
| | Amt Collected(cm²): 100 Amt Prepped(cm²): 0.1 Filter Area (mm²): 1256 Filter Type: PC Openings Analyzed: 4 |

| Control Cont | | | | | | | | | _ | | |
|--|---------------|-------------|---------|-----|------|--|-------------|--|---------------------------------------|--|-------------|
| 1 G6 71 B 6 C 0.4 C 2.5 0.17 72 B 3.0 0.25 C 1.3 0.08 73 B 3.0 0.2 C 1.3 0.08 74 F 5.5 0.1 C 2.3 0.04 76 F 1.5 0.2 C 0.8 0.8 0.04 77 F 2.0 0.1 C 0.8 0.04 78 F 1.5 0.1 C 0.8 0.04 79 F 2.5 0.1 C 0.8 0.04 79 F 2.5 0.1 C 0.8 0.04 80 B 3.5 0.2 C 1.5 0.8 81 F 2.0 0.1 C 0.8 0.04 82 F 2.0 0.1 C 0.8 0.04 83 F 2.1 0.1 C 0.8 0.04 84 F 3.0 0.1 C 0.8 0.04 85 F 3.5 0.1 C 0.8 0.04 86 F 1.5 0.1 C 0.8 0.04 87 F 1.5 0.1 C 0.8 0.04 88 F 2.0 0.1 C 0.8 0.04 89 F 2.1 0.1 C 0.8 0.04 80 B 3.5 0.2 C 1.5 0.8 81 F 2.0 0.1 C 0.8 0.04 82 F 2.0 0.1 C 0.8 0.04 83 F 2.1 0.1 C 0.8 0.04 84 F 3.0 0.1 C 0.8 0.04 85 F 3.5 0.1 C 0.8 0.04 86 F 1.5 0.1 C 0.9 0.04 87 F 1.5 0.1 C 0.9 0.04 88 F 2.0 0.1 C 0.9 0.04 89 F 2.1 0.1 C 0.8 0.04 89 F 1.5 0.1 C 0.8 0.04 80 B 3.5 0.2 C 0.1 1.5 0.04 80 B 5 F 3.5 0.1 C 0.8 0.04 80 B 5 F 3.5 0.1 C 0.8 0.04 80 B 6 F 1.5 0.1 C 0.8 0.04 80 B 7 F 1.5 0.1 C 0.8 0.04 80 | Grid | Opening | | | | | SAFD | Ens | Comments | | |
| 72 B 3.0 0.25 C 1.3 0.17 73 B 3.0 0.2 C 1.3 0.08 74 F 5.5 0.1 C 2.3 0.04 75 F 1.5 0.1 C 0.6 0.6 0.04 76 F 1.5 0.1 C 0.8 0.6 0.04 77 F 2.0 0.1 C 0.8 0.04 78 F 1.5 0.1 C 0.6 0.04 79 F 2.5 0.1 C 0.6 0.6 0.04 80 B 3.5 0.2 C 1.5 0.8 0.04 81 F 2.0 0.15 C 0.8 0.8 0.04 81 F 2.0 0.15 C 0.8 0.08 82 F 2.0 0.1 C 0.8 0.04 83 F 2.1 0.1 C 0.8 0.04 84 F 3.0 0.1 C 0.8 0.04 85 F 3.5 0.1 C 0.8 0.04 86 F 1.5 0.1 C 0.9 0.04 87 F 1.5 0.1 C 0.0 0.8 0.04 88 F 2.1 0.1 C 0.0 0.8 0.04 89 B 3.5 0.2 C 1.5 0.8 0.04 80 B 3.5 0.2 C 1.5 0.8 0.04 80 B 3.5 0.2 C 1.5 0.8 0.04 81 F 2.0 0.1 C 0.8 0.04 82 F 2.0 0.1 C 0.8 0.04 83 F 2.1 0.1 C 0.8 0.04 84 F 3.0 0.1 C 0.8 0.04 85 F 3.5 0.1 C 0.8 0.04 86 F 1.5 0.1 C 0.8 0.04 87 F 1.5 0.1 C 0.8 0.04 88 F 2.0 0.1 C 0.8 0.04 89 F 4.6 0.1 C 0.9 0.04 90 F 2.1 0.1 C 0.0 0.8 0.04 91 F 1.5 0.1 C 0.0 0.8 0.04 92 F 2.5 0.1 C 0.0 0.8 0.04 93 B 11.0 0.3 C 1.0 0.9 0.04 94 F 7.0 0.1 C 0.0 0.9 0.04 95 F 1.5 0.1 C 0.0 0.9 0.04 96 B 3.5 0.3 C 1.5 0.9 0.04 97 M 1.5 0.1 C 0.0 0.8 0.04 99 M 2.5 0.1 C 0.0 0.6 0.04 90 F 2.1 0.1 C 0.0 0.6 0.04 | 1 | | | 1 | · | | 1 | LDS | Comments | | |
| 73 B 3.0 0.2 C 1.3 0.08 74 F 5.5 0.1 C 2.3 0.04 75 F 1.5 0.1 C 0.6 0.6 0.04 76 F 1.5 0.2 C 0.6 0.6 0.04 77 F 2.0 0.1 C 0.6 0.6 0.04 78 F 1.5 0.1 C 0.6 0.6 0.04 79 F 2.5 0.1 C 0.6 0.6 0.04 80 B 3.5 0.2 C 1.5 0.8 81 F 2.0 0.15 C 0.8 0.8 0.04 82 F 2.0 0.1 C 0.8 0.8 0.04 83 F 2.1 0.1 C 0.8 0.04 84 F 3.0 0.1 C 0.8 0.04 85 F 3.5 0.1 C 0.8 0.04 86 F 1.5 0.1 C 0.8 0.04 87 F 2.1 0.1 C 0.8 0.04 88 F 1.5 0.1 C 0.8 0.04 89 F 2.1 0.1 C 0.9 0.04 80 B 3.5 0.2 C 1.5 0.0 81 F 2.0 0.1 C 0.8 0.04 82 F 2.0 0.1 C 0.8 0.04 83 F 2.1 0.1 C 0.8 0.04 84 F 3.0 0.1 C 0.9 0.04 85 F 3.5 0.1 C 0.8 0.04 86 F 1.5 0.1 C 0.8 0.04 87 F 1.5 0.1 C 0.8 0.04 88 F 2.0 0.1 C 0.8 0.04 89 F 2.1 0.1 C 0.8 0.04 90 F 2.1 0.1 C 0.8 0.04 91 F 1.5 0.1 C 0.8 0.04 92 F 2.5 0.1 C 0.8 0.04 93 B 11.0 0.3 C 1.9 0.9 0.04 94 F 7.0 0.1 C 0.8 0.8 0.04 95 F 11.0 0.1 C 0.8 0.8 0.04 99 F 2.1 0.1 C 0.8 0.04 99 F 2.2 0.01 C 0.8 0.04 | | | | | | | | | | | |
| 74 F 5.5 0.1 C 2.3 0.04 75 F 1.5 0.1 C 0.6 0.04 76 F 1.5 0.2 C 0.6 0.08 77 F 2.0 0.1 C 0.6 0.04 78 F 1.5 0.1 C 0.6 0.04 79 F 2.5 0.1 C 0.6 0.04 80 B 3.5 0.2 C 1.5 0.08 81 F 2.0 0.15 C 0.8 0.06 82 F 2.0 0.1 C 0.8 0.06 83 F 2.1 0.1 C 0.8 0.04 84 F 3.0 0.1 C 0.8 0.04 85 F 3.5 0.1 C 0.1 0.0 0.04 85 F 3.5 < | | | | | † | | | | | | 1. |
| 75 F 1.5 0.1 C 0.6 0.04 76 F 1.5 0.2 C 0.6 0.08 77 F 2.0 0.1 C 0.8 0.04 78 F 1.5 0.1 C 0.6 0.04 79 F 2.5 0.1 C 1.0 0.04 80 B 3.5 0.2 C 1.5 0.08 81 F 2.0 0.15 C 0.8 0.06 82 F 2.0 0.1 C 0.8 0.06 83 F 2.0 0.1 C 0.8 0.06 84 F 3.0 0.1 C 0.8 0.04 85 F 3.5 0.1 C 0.6 0.04 86 F 1.5 0.1 C 0.6 0.04 97 F 1.5 0.1 < | | | | | | | | | | - | |
| 76 F 1.5 0.2 C 0.6 0.08 77 F 2.0 0.1 C 0.6 0.04 78 F 1.5 0.1 C 0.6 0.04 79 F 2.5 0.1 C 1.0 0.04 80 B 3.5 0.2 C 1.5 0.08 81 F 2.0 0.15 C 0.8 0.06 82 F 2.0 0.1 C 0.8 0.06 83 F 2.1 0.1 C 0.9 0.04 84 F 3.0 0.1 C 0.9 0.04 85 F 3.5 0.1 C 0.6 0.04 86 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 95 89 F 4.6 <t< td=""><td></td><td></td><td></td><td></td><td>f</td><td></td><td></td><td> </td><td></td><td></td><td>+</td></t<> | | | | | f | | | | | | + |
| 777 F 2.0 0.1 C 0.8 0.04 78 F 1.5 0.1 C 0.6 0.04 79 F 2.5 0.1 C 1.0 0.04 80 B 3.5 0.2 C 1.5 0.08 81 F 2.0 0.1 C 0.8 0.06 82 F 2.0 0.1 C 0.8 0.06 83 F 2.1 0.1 C 0.8 0.04 84 F 3.0 0.1 C 0.9 0.04 85 F 3.5 0.1 C 1.5 0.04 86 F 1.5 0.1 C 1.5 0.04 87 F 1.5 0.1 C 0.6 0.04 95 89 F 4.6 0.1 C 0.8 0.04 91 F 1.5 <t< td=""><td> </td><td></td><td>· · · ·</td><td></td><td></td><td> </td><td></td><td></td><td></td><td></td><td>-</td></t<> | | | · · · · | | | | | | | | - |
| 78 F 1.5 0.1 C 0.6 0.04 79 F 2.5 0.1 C 1.0 0.04 80 B 3.5 0.2 C 1.5 0.08 81 F 2.0 0.15 C 0.8 0.06 82 F 2.0 0.1 C 0.8 0.04 83 F 2.1 0.1 C 0.9 0.04 84 F 3.0 0.1 C 1.3 0.04 85 F 3.5 0.1 C 1.5 0.04 86 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 97 F 1.5 0.1 C 0.8 0.04 90 F 2.1 0.1 < | | | | | | -{ | | <u> </u> | | | |
| 79 F 2.5 0.1 C 1.0 0.04 80 B 3.5 0.2 C 1.5 0.08 81 F 2.0 0.15 C 0.8 0.06 82 F 2.0 0.1 C 0.8 0.04 83 F 2.1 0.1 C 0.9 0.04 84 F 3.0 0.1 C 1.3 0.04 85 F 3.5 0.1 C 1.5 0.04 86 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 88 F 2.0 0.1 C 0.8 0.04 90 F 2.1 0.1 C 0.9 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 < | | | · | | | | | | · | | |
| 80 B 3.5 0.2 C 1.5 0.08 81 F 2.0 0.15 C 0.8 0.06 82 F 2.0 0.1 C 0.9 0.04 83 F 2.1 0.1 C 0.9 0.04 84 F 3.0 0.1 C 1.3 0.04 85 F 3.5 0.1 C 0.6 0.04 86 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 88 F 2.0 0.1 C 0.8 0.04 90 F 2.1 0.1 C 0.8 0.04 91 F 2.1 0.1 C 0.6 0.04 92 F 2.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 0.6 0.04 93 B 11.0 0.3 C <td< td=""><td><u> </u></td><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | <u> </u> | | | | | | | | | | |
| 81 F 2.0 0.15 C 0.8 0.06 82 F 2.0 0.1 C 0.8 0.04 83 F 2.1 0.1 C 0.9 0.04 84 F 3.0 0.1 C 1.3 0.04 85 F 3.5 0.1 C 0.6 0.04 86 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 88 F 2.0 0.1 C 0.8 0.04 90 F 2.1 0.1 C 0.8 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 0.6 0.04 92 F 2.5 0.1 < | ļ | | | | | | | | | | 0.04 |
| 82 F 2.0 0.1 C 0.8 0.04 83 F 2.1 0.1 C 0.9 0.04 84 F 3.0 0.1 C 1.3 0.04 85 F 3.5 0.1 C 0.6 0.04 86 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 88 F 2.0 0.1 C 0.8 0.04 95 89 F 4.6 0.1 C 0.9 0.04 90 F 2.1 0.1 C 0.6 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 1.0 0.04 95 F 11.0 <t< td=""><td><u> </u></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td></td><td>1.5</td><td>0.08</td></t<> | <u> </u> | | | | | | | ļ | | 1.5 | 0.08 |
| 83 F 2.1 0.1 C 0.9 0.04 84 F 3.0 0.1 C 1.3 0.04 85 F 3.5 0.1 C 1.5 0.04 86 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 88 F 2.0 0.1 C 0.8 0.04 95 89 F 4.6 0.1 C 0.9 0.04 90 F 2.1 0.1 C 0.9 0.04 91 F 1.5 0.1 C 0.9 0.04 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 96 B 3.5 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td></td><td>0.8</td><td>0.06</td></t<> | | | | | | | | ļ | | 0.8 | 0.06 |
| 84 F 3.0 0.1 C 1.3 0.04 85 F 3.5 0.1 C 1.5 0.04 86 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 88 F 2.0 0.1 C 0.8 0.04 J5 89 F 4.6 0.1 C 0.9 0.04 90 F 2.1 0.1 C 0.9 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 1.0 0.04 95 F 11.0 0.1 C 2.9 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 <t< td=""><td><u> </u></td><td></td><td></td><td></td><td>-</td><td>0.1</td><td></td><td></td><td></td><td>8.0</td><td>0.04</td></t<> | <u> </u> | | | | - | 0.1 | | | | 8.0 | 0.04 |
| 85 F 3.5 0.1 C 1.5 0.04 86 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 88 F 2.0 0.1 C 0.8 0.04 J5 89 F 4.6 0.1 C 1.9 0.04 90 F 2.1 0.1 C 0.9 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 1.0 0.04 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 4.6 0.04 96 B 3.5 | ļ | | | | | 0.1 | С | | | 0.9 | 0.04 |
| 86 F 1.5 0.1 C 0.6 0.04 87 F 1.5 0.1 C 0.6 0.04 88 F 2.0 0.1 C 0.8 0.04 J5 89 F 4.6 0.1 C 1.9 0.04 90 F 2.1 0.1 C 0.9 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 2.9 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>0.1</td><td>С</td><td></td><td></td><td>1.3</td><td>0.04</td></t<> | | | | | | 0.1 | С | | | 1.3 | 0.04 |
| 87 F 1.5 0.1 C 0.6 0.04 88 F 2.0 0.1 C 0.8 0.04 J5 89 F 4.6 0.1 C 1.9 0.04 90 F 2.1 0.1 C 0.9 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 2.9 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 < | | | 85 | | 3.5 | 0.1 | С | | | 1.5 | 0.04 |
| 88 F 2.0 0.1 C 0.8 0.04 J5 89 F 4.6 0.1 C 1.9 0.04 90 F 2.1 0.1 C 0.9 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 4.6 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 2.7 0.10 102 F 2.0 0.1 | | | 86 | F . | 1.5 | 0.1 | С | | | 0.6 | 0.04 |
| J5 89 F 4.6 0.1 C 1.9 0.04 90 F 2.1 0.1 C 0.9 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 4.6 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 2.7 0.10 101 B 6.5 | | | 87 | F | 1.5 | 0.1 | С | | | 0.6 | 0.04 |
| J5 89 F 4.6 0.1 C 1.9 0.04 90 F 2.1 0.1 C 0.9 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 4.6 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 2.7 0.10 101 B 6.5 | | <u> </u> | - 88 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| 90 F 2.1 0.1 C 0.9 0.04 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 4.6 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 2.7 0.10 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 | | J5 | 89 | F | 4.6 | 0.1 | С | | | 1.9 | |
| 91 F 1.5 0.1 C 0.6 0.04 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 4.6 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 2.7 0.10 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 | | | 90 | F | 2.1 | 0.1 | С | | | 0.9 | |
| 92 F 2.5 0.1 C 1.0 0.04 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 4.6 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 1.5 0.04 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.3 0.04 104 F 3.0 0.1 C 1.3 0.04 | | | 91 | F | 1.5 | 0.1 | С | | | | |
| 93 B 11.0 0.3 C 4.6 0.13 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 4.6 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 1.5 0.04 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | | | 92 | F | 2.5 | 0.1 | С | | | | |
| 94 F 7.0 0.1 C 2.9 0.04 95 F 11.0 0.1 C 4.6 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 1.5 0.04 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | | | 93 | В | 11.0 | 0.3 | - | | | | |
| 95 F 11.0 0.1 C 4.6 0.04 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 1.5 0.04 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | | | 94 | F | 7.0 | 0.1 | С | | | · · · · · · · · · · · · · · · · · · · | |
| 96 B 3.5 0.3 C 1.5 0.13 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 1.5 0.04 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | | | 95 | F | 11.0 | 0.1 | | | | · | |
| 97 M 1.5 0.1 C 0.6 0.04 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 1.5 0.04 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | | | 96 | В | 3.5 | | | | | | |
| 98 F 5.5 0.1 C 2.3 0.04 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 1.5 0.04 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | | | 97 | M | | | | | | | |
| 99 M 2.5 0.1 C 1.0 0.04 100 F 3.6 0.1 C 1.5 0.04 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | | | 98 | | | | | - | | | |
| 100 F 3.6 0.1 C 1.5 0.04 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | | | | | | | | | | 1 | |
| 101 B 6.5 0.25 C 2.7 0.10 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | | | | | | | | | | | |
| 102 F 2.0 0.1 C 0.8 0.04 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | | <u> </u> | | | | | | | · · · · · · · · · · · · · · · · · · · | | |
| 103 M 4.0 0.1 C 1.7 0.04 104 F 3.0 0.1 C 1.3 0.04 | L | | 102 | F | 2.0 | | | | | | |
| 104 F 3.0 0.1 C 1.3 0.04 | | | 103 | М | 4.0 | | | | | † · · · · · · · · · · · · · · · · · · · | |
| 105 5 1.0 0.07 | | | 104 | | | | | | | 1 | |
| | | | | | 1.5 | 0.1 | C | | | 0.6 | 0.04 |

^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

EDS: C = Chrysotile, AM = Amosite, CR = Crocidolite, AC = Actinolite, AN = Anthophyllite, TR = Tremolite, N = Non Asbestos

Case 01-01139-AMC Doc 17074-7 Filed 10/16/07 Page 25 of 28

MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

| MVA Project#5394 Amt Collected(cm ²): 100 Analyst: WH | |
|---|-------------|
| MVA Sample# S0839 Amt Prepped(cm²): 0.1 Date: 8/1/20 | 007 |
| Client I.D.: 08.VA Filter Area (mm²): 1256 Page: 4 of 4 | · |
| Instrument: Philips 120 Filter Type: PC Comments: 0.1 ml | · |
| Magnification: 24,000 Openings Analyzed: 4 ASTM Method: D6480 | |
| Acc. Voltage: 100 Grid Opening (mm²): 0.009 or D5755 | X |

| | | | | _ | | | | - | | |
|--|--------------|----------------------|-------------------|------------------|-----------------|------|--------------|----------|-----------|----------|
| Grid | Opening | Structure Number* | Structure Type | Length** (cm) | Width** (cm) | SAED | EDS | 0 | Length*** | Width*** |
| 1 | J5 | 106 | F | 3.5 | 0.1 | C | EDS | Comments | (µm) | (µm) |
| | - 00 | 107 | F | | | | | | 1.5 | 0.04 |
| | | | | 3.0 | 0.1 | C | | | 1.3 | 0.04 |
| | | 108 | F | 6.5 | 0.1 | С | | | 2.7 | 0.04 |
| <u> </u> | <u> </u> | 109 | F | 3.5 | 0.15 | . с | | | 1.5 | 0.06 |
| · · · · · · · · · · · · · · · · · · · | | 110 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | | 111 | M | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| <u> </u> | ļ | 112 | F | 3.5 | 0.1 | С | 20.0 | | 1.5 | 0.04 |
| | | 113 | В | 3.5 | 0.2 | С | | 5 , | 1.5 | 0.08 |
| | 1 | 114 | F | 7.0 | 0.1 | С | | | 2.9 | 0.04 |
| | | 115 | F | 5.0 | 0.1 | С | | | 2.1 | 0.04 |
| | | 116 | F | 3.0 | 0.1 | C. | | | 1.3 | 0.04 |
| | | 117 | F | 3.5 | 0.1 | С | | | 1.5 | 0.04 |
| | | 118 | F | 2.6 | 0.1 | C | | | 1.1 | 0.04 |
| | | | | | | Ů | | | 1.1 | 0.04 |
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^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

MVA Project# 5394 Amt Collected(cm2): 100 Analyst: WH MVA Sample# S0840 Amt Prepped(cm²): Date: 8/1/2007 Client I.D.: 09.VA Filter Area (mm²): 1256 Page: 1 of 2 Instrument: Philips 120 Filter Type: PC Comments: 1.0 ml Magnification: 24,000 Openings Analyzed: 9 ASTM Method: D6480 Acc. Voltage: 100 Grid Opening (mm²): 0.009 or D5755 X

| Grid | Opening | Structure Number* | Structure Type | Length** (cm) | Width** (cm) | SAED | EDS | Comments | Length*** | Width*** |
|----------|-------------|----------------------|-------------------|------------------|-----------------|------|--|------------|-------------|--------------|
| 1 | A5 | 1 | C | 6.5 | 2.5 | C | | Confinence | (µm) 2.7 | (µm) 1.04 |
| | | 2 | В | 3.0 | 0.2 | C | | | 1.3 | 0.08 |
| | | 3 | F | 4.6 | 0.15 | C | | | 1.9 | 0.06 |
| | 1 | 4 | F | 4.6 | 0.2 | C | | | 1.9 | 0.08 |
| | - | 5 | F | 4.4 | 0.1 | С | | | 1.8 | 0.04 |
| | | 6 | F | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| | | 7 | F | 1.8 | 0.1 | С | <u> </u> | | 0.8 | 0.04 |
| | | 8 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | - C7 | 9 | В | 7.0 | 0.5 | С | С | photo | 2.9 | 0.21 |
| <u> </u> | | 10 | F | 6.0 | 0.1 | С | | | 2.5 | 0.04 |
| | <u> </u> | 11 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | | 12 | F F | 1.5 | 0.1 | С | | | 0.6 | 0.04 |
| | | 13 | M | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| | | 14 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | D4 | 15 | F | 30.0 | 0.15 | С | | | 12.5 | 0.06 |
| | | 16 | F | 11.5 | 0.1 | С | | | 4.8 | 0.04 |
| | | 17 | С | 4.5 | 1.8 | С | | | 1.9 | 0.75 |
| | | 18 | F | 1.8 | 0.1 | С | | | 0.8 | 0.04 |
| | | 19 | С | 12.5 | - 6 | С | | | 5.2 | 2.50 |
| | | 20 | F | 5.0 | 0.1 | С | | | 2.1 | 0.04 |
| <u> </u> | | 21 | F | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| | <u> </u> | 22 | В | 5.0 | 0.5 | С | | | 2.1 | 0.21 |
| | F1 | 23 | F | 6.0 | 0.1 | С | | | 2.5 | 0.04 |
| | | 24 | F | 2:0 | 0.1 | С | | | 0.8 | 0.04 |
| <u> </u> | <u></u> | 25 | F | 2.5 | 0.1 | C | | | 1.0 | 0.04 |
| : | ļ. <u> </u> | 26 | F | 4.1 | 0.1 | С | | | 1.7 | 0.04 |
| | | 27 | М | 3.0 | 0.3 | С | | | 1.3 | 0.13 |
| | H8 | 28 | . M | 5.0 | 0.1 | С | | | 2.1 | 0.04 |
| <u> </u> | | 29 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| ļ | | 30 | F | 3.0 | 0.1 | С | | | 1.3 | 0.04 |
| | | 31 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | | 32 | F | 4.0 | 0.1 | С | | | 1.7 | 0.04 |
| L | | 33 | ·F | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| 2 | C2 | 34 | F | 3.5 | 0.1 | С | | | 1.5 | 0.04 |
| | | 35 | F | 1.5 | 0.1 | С | | · | 0.6 | 0.04 |

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Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

Case 01-01139-AMC Doc 17074-7 Filed 10/16/07 Page 27 of 28 MVA SCIENTIFIC CONSULTANTS

Surface Dust Sample Analysis Sheet

| | | | | ,,, | | | |
|------------------|------------|----------------------------------|---------------------|--------------|----------------|----------------|--|
| MVA Project#5394 | | Amt Collected(cm ²): | 100 | Analyst: | Analyst: WH | | |
| MVA Sample#S0840 | | Amt Prepped(cm²): | Amt Prepped(cm²): 1 | | Date: 8/1/2007 | | |
| Client I.D.: | 09.VA | Filter Area (mm²): | 1256 | Page: | 2 of 2 | - | |
| Instrument: P | hilips 120 | Filter Type: | PC | Comments: | | | |
| Magnification: | 24,000 | Openings Analyzed: | 9 | ASTM Method: | | | |
| Acc. Voltage: | 100 | Grid Opening (mm²): | 0.009 | | D5755 | \overline{x} | |

| Grid | Opening | Structure Number* | Structure | Length** | Width** | 0 | | | Length*** | Width*** |
|--|--|----------------------|-----------|----------|---------|----------|----------------|----------|-----------|-------------|
| 2 | C2 | 36 | Type | (cm) | (cm) | SAED | EDS | Comments | (µm) | (µm) |
| | 02 | | M | 1.5 | 0.1 | C | | | 0.6 | 0.04 |
| | | 37 | M | 1.5 | 0.1 | С | | | 0.6 | 0.04 |
| | <u> </u> | 38 | F | 3.2 | 0.1 | С | | | 1.3 | 0.04 |
| | - | 39 | В | 22.0 | 1.5 | С | | | 9.2 | 0.63 |
| ļ | D4 | 40 | M | 3.1 | 0.1 | С | | | 1.3 | 0.04 |
| ļ | | 41 | F | 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | ļ | 42 | F | 4.0 | 0.1 | С | | | 1.7 | 0.04 |
| | F8 | 43 | F | 2.5 | 0.1 | С | | • | . 1.0 | 0.04 |
| | <u> </u> | 44 | F | 5.0 | 0.1 | С | | | 2.1 | 0.04 |
| | H9 | 45 | F. | 7.5 | 0.1 | С | · | | 3.1 | 0.04 |
| | | 46 | F | . 2.0 | 0.1 | С | | | 0.8 | 0.04 |
| | | 47 | В | 6.0 | 0.4 | С | | * | 2.5 | 0.17 |
| | | 48 | F | 2.5 | 0.1 | С | | | 1.0 | 0.04 |
| | | 49 . | F | 2.2 | 0.1 | C | | | 0.9 | 0.04 |
| | | 50 | F | 3.0 | 0.15 | С | | | 1.3 | 0.06 |
| | | | - | | | | | | 1.10 | 0.00 |
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Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)

Case 01-01139-AMC Doc 17074-7 Filed 10/16/07 Page 28 of 28

MVA SCIENTIFIC CONSULTANTS Surface Dust Sample Analysis Sheet

| MVA Project# | 5394 | Amt Collected(cm ²): | 100 | Analyst: V | VH | | |
|----------------|------------|----------------------------------|-------|----------------|---------|---|--|
| MVA Sample# | S0841 | Amt Prepped(cm²): | 0.1 | Date: | 8/1/200 | 7 | |
| Client I.D.: | 10.VA | Filter Area (mm²): | 1256 | Page: | 1 of 1 | | |
| Instrument: F | hilips 120 | Filter Type: | PC | Comments: (|).1 mi | | |
| Magnification: | 24,000 | Openings Analyzed: | . 10 | ASTM Method: D | 6480 | | |
| Acc. Voltage: | 100 | Grid Opening (mm²): | 0.009 | or D | 5755 | X | |

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|----------|---------|---------------------------------------|-----------|----------|----------|---------|--------|----------|---------------------------------------|----------|
| | | Structure | Structure | Length** | Width** | | | | Length*** | Width*** |
| Grid | Opening | Number* | Type | (cm) | (cm) | SAED | EDS | Comments | (µm) | (µm) |
| 1 | 13 | 1 | В | 2.6 | 0.5 | С | ļ | | 1.1 | 0.21 |
| <u> </u> | H1 | NSD | | | | | | | | |
| | G5 | NSD | | | | | | | | <u> </u> |
| | F7 | NSD | | | | | ļ. | | | |
| | C6 | 2 | · F | 1.5 | 0.1 | С | | | 0.6 | 0.04 |
| 2 | H2 | NSD | | ٠, | | | | | | |
| | 15 | 3 | Ė | 2.9 | 0.1 | С | | | 1.2 | 0.04 |
| | F3 | NSD | | | : | | | | | |
| | H9 | NSD | | | | | | | | |
| | C10 | NSD | | | | | | | | |
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^{*}NFD or NSD = No Fibers Detected or No Structures Detected

Structure Type: B = Bundle, C = Cluster, F = Fiber, M = Matrix

SAED: C = Chrysotile, A = Amphibole

^{**} On Screen Measurement

^{***} Calculated Actual Measurement (On Screen Measurement X 10,000/Magnification)